U.S. Application Serial No. 10/071,370 Group Art Unit: 1647 Examiner: Lockard, J.M. Merck Case No.:18199CB

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REMARKS

This Amendment is filed in response to the Office Action mailed July 13, 2004. A Petition to Extend Time under 37 C.F.R. § 1.136(a) for one (1) month, up to and including December 29, 2004, is enclosed.

An Information Disclosure Statement, with the appropriate fee for a large entity, is entered herewith.

Figure 4H, Figure 4K, Figure 4M, Figure 5C, Figure 6B, and Figure 7A are amended to include sequence identifiers.

Claims 22, 26, 30 and 34 are amended to include sequence identifiers.

Applicants respectfully take the position that this application is now in proper form for allowance. Early action to that end is earnestly solicited. The Examiner is invited to contact the undersigned attorney if clarification is required on any aspect of this Amendment.

Respectfully submitted,

Date: 16 DECEMBER 2001

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Amendment to the Drawings:

The attached sheet of drawings includes changes to Figure 4H, Figure 4K, Figure 4M, Figure 5C, Figure 6B, and Figure 7A to include sequence identifiers as follows:

Figure 4H - SEQ ID NOs 1 and 2; Figure 4K - SEQ ID NOs 3 and 4; Figure 4M - SEQ ID NOs 5 and 6; Figure 5C - SEQ ID NOs 1 and 2; Figure 6B - SEQ ID NOs 3 and 4; and, Figure 7A - SEQ ID NOs 5 and 6.

These sheets replace the like sheets submitted as formal drawings by Applicant on 8 February 2002.

Therefore,

- (a) in Figure 4H, the sequence identifiers SEQ ID NO:1 and SEQ ID NO:2 are added;
- (b) in Figure 4K, the sequence identifiers SEQ ID NO:3 and SEQ ID NO:4 are added;
- (c)in Figure 4M, the sequence identifiers SEQ ID NO:5 and SEQ ID NO:6 are added;
- (d) in Figure 5C, the sequence identifiers SEQ ID NO:1 and SEQ ID NO:2 are added;
- (e) in Figure 6B, the sequence identifiers SEQ ID NO:3 and SEQ ID NO:4 are added; and,
- (f) in Figure 7A, the sequence identifiers SEQ ID NO:5 and SEQ ID NO:6 are added.

Attachment: Six (6) Replacements Sheets

Six (6) Annotated Sheet Showing Changes

DEC 2 0 2004 62

ACT TGC AGA TGT GAC AAG рш-3 CCA 190 ARG-ARG AGG CGG TGH (SEO 10 NO:1) (SEQ 1D NO: 2)

FIG. 41

CTG 158	. ARG-	1+	THR-	ACA	
1	AGG ARG		-PHE-	пс	
* TGA	AGG AAA 140 ARG-LYS-	\	120 -SER-	TCT	
(36)		\	- GLN-	CAG	
	A-LYS-	•	N-ASI	GAT	
(SEQ 1D NO:	ACC AAG GGG A	'	ASP-UAL-	r GTA	
W W				CTC	
	PCU2 RG RGG RAG CAA AGC RAA ACC CCA 150 YS-ARG-LYS-GLN-SER-LYS-THR-PRO	1	130 - CYS-GLU-CYS-AAG-PRO-ILE-LEU-	391	
	6-L46	[L44]	S- GL1		No.
	AAG CAA	ī	1- CY	GAN TGC NGG CCT ATT	172
	N-SE		S-AR	C AC	<u>ت</u>
	AGC AAA-SER-LYS-		G-PA	33 g	
	IR ACC		138 10-1LE	T AT	
	ACC CCA THR-PRO		E- LE	I CIG	
	CAG ACT	L	LU-11	GAG A	
			HR-T	ACC ACA AAG	
	GAG G		HR-L	CA A	
	GRA CCC		YS- A	9 9 B	
	CAG ACT GAG GAA CCC CAGLN-THR-GLU-GLU-PRO-HIS		GLU-THR-THR-LYS- ALA-GL	GCA GA	
	¥ ± 53		Ë	B	

FIG. 4K

300

TAA

(SED 10 NO: 5)

138 ARG

(SER ID NOTE)

ATC CGC ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-ACA ILE- THR-MET-GLN-ILE-LEU-LYS-ILE-PRO-PRO-ASN-ARG-ASI ACT 161 TCT AGT ATG 399 CAG CAG GAT ATC **16C** GTA HIL 161 GGT RAG CTC **16C** GAC HT 000989 GAA TGC AGG CCC RAT GGT CTG pCU2.1 pCU2.1 pCV2.1 CCT 993 CNC RIT **161** 697 90 P-PRO-HIS-SER-TYR-UAL-GLU-MET-**CTG** CCA UAL-ALA-LEU-LYS-THR-ALA-ASN-GTG 989 CAT 939 ACG **100** CTA ACA TAC AAG AAG **616** ACA GCA 686 339

ATG

AAC

FIG. 4M

138 138- PHE-SER- GLN-RSP-WAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE

ŀ

LEU- GLU- THR-THR-LYS- ALA-GLU-

688

10/071, 370 RED-LINED ANNOTHED SHEET (40/6)

ACT TGC AGA TGT GAC AAG CCA 198 - ARG- ARG AGG 693 TGA (SEQ 1D NO: 2) (SEQ ID NJ. 2)

FIG. 5C

10/071,370 RED-LINED ANNOTATED SHEET (506)

ARC	966		+	THR	ACF	-
) ARC	e age		+	- PHE	711	
140 5- LYS	AAA		\	120 -SER-	TCT	
140 ARG-ARG-LYS-THR-LYS-GLY-LYS-ARG-LYS-GLN-SER-LYS-THR-PRO-GLN-	AGG AGG AAA ACC AAG GGG AAG AGG AAG CAA AGC AAA ACC CCA CAG		 	- GLN	ACA TIC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG GAG	
-LYS	AAG		†	- ASP	GAT	
- GL Y	666			-שנ	GTA	
-LYS	AAG			- LEU	CTC	
- ARG	AGG			- CYS	16C	
-LYS	AAG		[144]	- GL U	GAA	
- GLZ	CAA	рси2		- CYS	16C	- proz
- SEA	AGC			- ARG	AGG	
-SAT-	AAA			- PRO	CCT	
THR.	ACC			130 -ILE-	ATT	
▼ PRO	CCA			. LEU.	CTG	
↑ SEX	CAG			- GLU	686	
★ 불			•	- THR	ACG	
-6LU- 126	GAG			- THR	ACA	
1 ¥ E	699		*	-LYS-	ACG ACA AAG GCA GAA	
→ PRO	333			- ALA	GCA	
THR-GLU-GLU-PRO-HIS-	ACT GAG GAA CCC CAC			120 THR-PHE-SER- GLN-ASP-UAL-LEU- CYS-GLU-CYS-ARG-PRO-ILE- LEU-GLU-THR-THR-LYS-ALA-GLU-	GAA	

158 LEU. • (SEQ ID NO: 3)

FIG. 6B

RED-CIMED ANNOTATED SHEET (6 of 6) 10/071,370 ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-ACA AGG

CGC

161

AGT

399

TGC

161

GGT

GAC

GAG

GGT CTG

CAC

191

616

939

CTA

AAG

ACA

GCC

AAC

90

UAL-ALA-LEU-LYS-THR-ALA-ASN-

pCV2.1

80

ILE- THR- MET-GLN- ILE-LEU- LYS- ILE- PRO-PRO-ASN-ARG-ASP-THR-PHE-SER-TIC ACT TCT ATG CAG CAG GLN-ASP-UAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-ATC GAT HI GTA AAG CTC **16C** HI _ 333 GAA **TGC** CCC AAT pCU2.1 AGG CCT 093 HI GAT CTG CCA PRO- HIS- SER- TYR- URL- GLU- MET-LEU- GLU- THR- THR- LYS- ALA- GLU-GAG CAT TCC ACG ACA TAC AAG **616** GCA GAG ATG GAA

pCU2.1

FIG. 7A

ARG

(SEQ 1D NO:6

138

TAA

(SEQ 10 NO: 5)